bristles being composed of sections of strands and/or threads of aramid fibers which are present in a wound arrangement, each section running in a loop shape around a core extending away from it without crossing over in such a way that its two end faces form tangents with the same imaginary face which is spaced apart from the core, and the sections being arranged around the core in a plurality of layers one on top of the other and being secured in a fixed fashion with a clamping section,

wherein the strands and/or threads are composed exclusively of fine, angel hair-like aramid fibers, and

wherein sections of the strands are secured between the core and the clamping section exclusively by means of frictional locking.

9. (new) Brush sealing ring according to Claim 8, wherein the core is shaped from a metal wire with a round cross section and the clamping section is shaped from a metallic round tube which is slotted in the longitudinal direction.

10. (new) Brush sealing ring according to Claim 8, wherein, in addition to their, essentially, radial or axial orientation, the sections have a directional component in the circumferential direction outside the clamping region.

11. (new) Brush sealing ring according to Claim 9, wherein, in addition to their, essentially, radial or axial orientation, the sections have a directional component in the circumferential direction outside the clamping region.

12. (new) Brush sealing ring according to Claim 8, wherein the sections have end faces which are manufactured by mechanical cutting or shearing off, by laser beam cutting, if appropriate with water cooling ("laser micro jet process"), or by means of water jet cutting.

13. (new) Brush sealing ring according to Claim 9, wherein the sections have end faces which are manufactured by mechanical cutting or shearing off, by laser beam cutting, if appropriate with water cooling ("laser micro jet process"), or by means of water jet cutting.

14. (new) Brush sealing ring according to Claim 10, wherein the sections have end faces which are manufactured by mechanical cutting or shearing off, by laser beam cutting, if appropriate with water cooling ("laser micro jet process"), or by means of water jet cutting.

15. (new) Brush sealing ring according to Claim 11, wherein the sections have end faces which are manufactured by mechanical cutting or shearing off, by laser beam cutting, if appropriate with water cooling ("laser micro jet process"), or by means of water jet cutting.

16. (new) Brush sealing ring according to Claim 8, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

17. (new) Brush sealing ring according to Claim 9, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

18. (new) Brush sealing ring according to Claim 10, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

19. (new) Brush sealing ring according to Claim 12, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

20. (new) Use of a sealing ring according to Claim 8, wherein the sealing ring is configured for sealing predominantly gaseous fluids, including hydrogen.

21. (new) Use of a sealing ring according to Claim 9, wherein the sealing ring is configured for sealing predominantly gaseous fluids, including hydrogen.

22. (new) Use of a sealing ring according to Claim 10, wherein the sealing ring is configured for sealing predominantly gaseous fluids, including hydrogen.

23. (new) Use of a sealing ring according to Claim 12, wherein the sealing ring is configured for sealing predominantly gaseous fluids, including hydrogen.

24. (new) Use of a sealing ring according to Claim 16, wherein the sealing ring is configured for sealing predominantly gaseous fluids, including hydrogen.

25. (new) Use of a sealing ring according to Claim 8, wherein the sealing ring is configured for use in turbo machines of all kinds as well as in electric generators.

26. (new) Use of a sealing ring according to Claim 9, wherein the sealing ring is configured for use in turbo machines of all kinds as well as in electric generators.

27. (new) Use of a sealing ring according to Claim 10, wherein the sealing ring is configured for use in turbo machines of all kinds as well as in electric generators.

28. (new) Use of a sealing ring according to Claim 12, wherein the sealing ring is configured for use in turbo machines of all kinds as well as in electric generators.

29. (new) Use of a sealing ring according to Claim 16, wherein the sealing ring is configured for use in turbo machines of all kinds as well as in electric generators.

30. (new) Use of a sealing ring according to Claim 20, wherein the sealing ring is configured for use in turbo machines of all kinds as well as in electric generators.

31. (new) A bush sealing ring for sealing a space between a rotor and a stator comprising:

an annular housing fixed in use to said stator,

a core carried by the annular housing, and

a plurality of strand sections extending in a loop around the core and extending with end faces forming tangents with an annular face spaced from the core, and

a clamp securing said strand sections to the core,

wherein the strand sections are formed exclusively of fine,angel hair aramid fibers, and

wherein the strand sections are secured between the clamp and the core exclusively by fictional clamping.

32. (new) A brush sealing ring according to Claim 30, wherein the core is shaped from a metal wire with a round cross section and the clamping section is shaped from a metallic round tube which is slotted in the longitudinal direction.

33. (new) A brush sealing ring according to Claim 30, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

34. (new) A brush sealing ring according to Claim 31, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

35. (new) A brush sealing ring according to Claim 30, wherein said rotor and stator are part of a turbo machine.

36. (new) A brush sealing ring according to Claim 30, wherein said rotor and stator are part of an electric generator.

37. (new) A method of making a sealing ring for sealing a space between a rotor and a stator, comprising:

fixing an annular seal housing to said stator,

placing a core in said annular seal housing with a plurality of fiber strand sections looped around the core which extend with end faces forming tangents with an annular face spaced from the core to sealing engage the rotor, and

clamping the strand sections to the core,

wherein the strand sections are formed exclusively of fine,angel hair aramid fibers, and

wherein the strand sections are secured between the clamp and the core exclusively by fictional clamping.

38. (new) A method according to Claim 37, wherein the core is shaped from a metal wire with a round cross section and the clamping section is shaped from a metallic round tube which is slotted in the longitudinal direction.

39. (new) A method according to Claim 37, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

40. (new) A method according to Claim 38, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

41. (new) A method according to Claim 37, wherein the aramid fibers which are used as bristle material correspond in their chemical and physical structure to the Kevlar, Type 49, from DuPont.

42. (new) A method according to Claim 37, wherein said rotor and stator are part of a turbo machine.

IN THE ABSTRACT:

Please add an Abstract of the Disclosure submitted herewith on a separate page.